

be INSPIRED *drive* DISCOVERY *stay* GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

| Product Name: | RecJf |
|------------------------|---|
| Catalog Number: | M0264L |
| Concentration: | 30,000 U/ml |
| Unit Definition: | One unit is defined as the amount of enzyme required to produce 0.05 nmol TCA soluble deoxyribonucleotide in a total reaction volume of 50 μ l in 30 minutes at 37°C. |
| Packaging Lot Number: | 10144524 |
| Expiration Date: | 01/2024 |
| Storage Temperature: | -20°C |
| Storage Conditions: | 10 mM Tris-HCl , 50 mM KCl , 1 mM DTT , 0.1 mM EDTA , 200 μg/ml BSA , 50 % Glycerol, (pH 7.4 @ 25°C) |
| Specification Version: | PS-M0264S/L v2.0 |

| RecJf Component List | | | | |
|----------------------|-----------------------|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| M0264LVIAL | RecJf | 10130290 | Pass | |
| B7002SVIAL | NEBuffer™ 2 | 10133927 | Pass | |

| Assay Name/Specification | Lot # 10144524 |
|---|----------------|
| Ligation and Recutting (Terminal Integrity, Digested DNA) A 50 µl reaction in 1X CutSmart® Buffer containing 4 µg of PhiX174-HaeIII digest and a minimum of 60 units of RecJf incubated for 4 hours at 37°C results in >95% ligation of the DNA fragments as determined by agarose gel electrophoresis. Of these ligated fragments, >95% can be recut with HaeIII. | Pass |
| Endonuclease Activity (Circular Single Stranded DNA) A 50 μ I reaction in CutSmart® Buffer containing 1 μ g of PhiX174 Virion DNA and a minimum of 90 units of RecJf incubated for 4 hours at 37°C results in <10% conversion to linear DNA as determined by agarose gel electrophoresis. | Pass |
| Endonuclease Activity (Nicking) A 50 μ I reaction in CutSmart® Buffer containing 1 μ g of supercoiled PhiX174 DNA and a minimum of 90 units of RecJf incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis. | Pass |
| RNase Activity Assay (4 Hour Digestion) A 10 μI reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA | Pass |





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| Assay Name/Specification | Lot # 10144524 |
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| and a minimum of 30 units of RecJf is incubated at 37°C. After incubation for 4 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection. | |
| Ligation and Recutting (Terminal Integrity, Digested DNA) A 50 µl reaction in 1X CutSmart® Buffer containing 4 µg of pUC19-SphI digest and a minimum of 60 units of RecJf incubated for 4 hours at 37°C results in >95% ligation of the DNA fragments as determined by agarose gel electrophoresis. Of these ligated fragments, >95% can be recut with SphI. | Pass |

This product has been tested and shown to be in compliance with all specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Jehoei

John Greci Production Scientist 08 Mar 2022

Josh Hersey

Packaging Quality Control Inspector 08 Mar 2022

